



Advanced Tactical Parachute System ***(ATPS)***

Overview:

The **Advanced Tactical Parachute System (ATPS)** program is being conducted to develop a parachute system which will satisfy the XVIII Corps top priority airdrop need and user requirements to reduce parachutist injuries and airdrop operational altitudes to 500 (+/- 125) feet. The ATPS includes a main parachute, reserve parachute and harness to replace the venerable T-10 parachute system. The ATPS will provide the airborne soldier with unparalleled safety, reduce the vulnerability of the airdrop aircraft and crew and enhance combat performance of the "First-to-Fight".

Description:

The ATPS will operate in a combat environment of 500 feet (+/- 125 feet) Above Ground Level (AGL) minimum planned altitude, deployed from aircraft traveling at speeds of 130-150 Knots Indicated Airspeed (KIAS). The Rate-of-Descent at impact will be reduced by 25% from 21 ft/sec to 16 ft/sec. The reduction in impact velocity will result in a 40% reduction in impact energy and a significant reduction in landing injuries. The ATPS will also incorporate an advanced reserve parachute and an advance harness. The new reserve parachute will provide a significant decrease in the Rate-of-Descent at impact over the T-10 reserve. The ATPS harness will include main and reserve attachments, which will align the parachute opening forces along the long axis of the jumpers body thereby reducing spinal injuries. The harness will incorporate the use of comfort pads, an integral equipment release, and adjustability for use by a 5 percentile female and 95-percentile male jumper.



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